

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
NAZAROV et al.
Serial No. New
Filed: Herewith
For: A LYOTROPIC LIQUID CRYSTAL
SYSTEM BASED ON
PERYLENETETRACARBOXYLIC ACID
DIBENZIMIDAZOLE
SULFODERIVATIVES, RELATED
ANISOTROPIC FILMS, AND METHOD
FOR MAKING

Examiner: Not yet assigned

Group Art Unit: Not yet assigned

INFORMATION DISCLOSURE
STATEMENT

Dated: November 14, 2003

CERTIFICATE OF MAIL (37 CFR 1.8(a))

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop Patent Applications, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 14, 2003.

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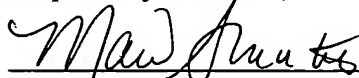
Sir:

This Information Disclosure Statement is hereby submitted in accordance with 37 CFR 1.98 and pursuant to Applicant's continuing duty under 37 CFR 1.56 to bring any information which may be material to patentability of this application to the Examiner's attention.

Applicant makes no representation that a complete search has been conducted by the Applicant, or that there is not possibly more relevant art. Applicant also makes no representation that the information submitted herewith is in fact material. The subject application is believed patentable over any of the references listed on the attached PTO 08A and 08B form.

This Information Disclosure Statement is being filed within three (3) months of the application filing in accordance with 37 C.F.R. §1.97(b)(2); accordingly, no fees are required. However, the Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No.50-2319 (Order No. A-72244/AJT (463031-141)).

Respectfully submitted,



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known					
				Application Number		New			
				Filing Date		Herewith			
				First Named Inventor		Victor V. Nazarov			
				Group Art Unit		Unknown			
				Examiner Name		Unassigned			
Sheet	1	of	2	Attorney Docket Number		A-72244/AJT/ (463031-141)			
U.S. PATENT DOCUMENTS									
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number Kind Code ² (if known)		Name of Patentee or Applicant of Cited Document		Date of Publication of Cited Document MM-DD-YYYY		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	A-1	2,553,961		J.F. Dreyer		05/22/1951			
	A-2	5,739,296		Gvon et al.		04/14/1998			
FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No. ¹	Foreign Patent Document Office ³ - Number ⁴ (if known)		Name of Patentee or Applicant of Cited Document		Date of Publication of Cited Document		Pages, Columns, Lines, Where Relevant Passages or Relevant	T ⁶
		PCT US94/05493		Russian Technology Group		8.12.1994			Yes
		PCT US02/03800		Optiva, Inc.		15.08.2002			
		EP 0961138 A1		Gosudarstvenny Nauchny Tsentr Rossiiskoi Federatsii "NIOPIK"		01/12/1999			
		EP 1128192 A1		Optiva, Inc.		29.08.2001			
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				Application Number	New
				Filing Date	Herewith
				First Named Inventor	Victor V. Nazarov
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	2	of	2	Attorney Docket Number	A-72244/AJT (463031-141)
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	C-1	B. BAHADUR, "Liquid Crystals: Applications and Uses", World Scientific, Singapore New York (1990), Vol. 1, p. 101			
	C-2	J. LYDON, "Chapter XVIII Chromonics", in: Handbook of Liquid Crystals, Wiley-VCH, Weinheim, 1998, Vol. 2B, pp. 981-1007.			
	C-3	R.A. CORMIER, B.A. GREGG, "Self-Organization in Thin Films of Liquid Crystalline Perylene Diimides" J. Phys. Chem. 101(51), 1997, pp. 11004-11006.			
	C-4	H. QUANTE, H.Y. GEERTS, K. MULLEN, "Synthesis of Soluble Perylenebisamidine Derivatives. Novel Long-Wavelength Absorbing and Fluorescent Dyes", Chem. Mater. 6(2), 1997, pp. 495-500.			
	C-5	ISAAC K. IVERSON, SEAN M. CASEY, WONEWOO SEO, SUK-WAH TAM-CHANG, "Controlling Molecular Orientation in Solid Films via Self-Organization in the Liquid-Crystalline Phase", American Chemical Society, January 25, 2002, 7 pages.			
	C-6	T. FISKE, L. IGNATOV, P. LAZAREV, V. NAZAROV, M. PAUKSHTO, "Molecular Alignment in Crystal Polarizers and Retarders", Society for Information Display, Int. Symp. Digest of Technical Papers, Boston, MA, May 19-24, 2002, pp. 566-569.			
	C-7	V. NAZAROV, L. IGNATOV, K. KIENSKAYA, "Electronic Spectra of Aqueous Solutions and Films Made of Liquid Crystal Ink for Thin Film Polarizers", Mol. Mater. 14(2), 2001, pp. 153-163.			
	C-8	Y. BOBROV, L. BLINOV, L. IGNATOV, G. KING, V. LAZAREV, Y.D. MA, V. NAZAROV, E. NEBURCHILOVA, N. OVCHINNIKOVA, S. REMIZOV, "Environmental and Optical Testing of Optiva Thin Crystal Film™ Polarizers", Proceedings of the 10 th SID Symposium "Advanced display technologies", Minsk, Republic of Belarus, September 18-21, 2001, pp. 23-30.			
Examiner Signature				Date Considered	

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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